We claim:

encodes plant to APB.

The let structed acid of claim 1, which is prefered itlly expressed in plant roots upon exposure of the plant to NEPB.

the plan is selected or muche group consisting of Brassica napus an Arabia pris of Hima and is 3850-4150 nucleotides long.

4. The use atem nucleic acid of claim 1, which has the rest intion sites who in Figure 4 for at least three enzymes.

20 . The scate inucleic acid of claim 4, which encodes olymphone in the second SF. ID NC:2.

a cDNA correction acid of claim 5, which is consisting of SE. 10.7 : and SEQ ID NO:10.

at the fact of making the

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- . And it works assumunal ogically specific for the protein and claim 7.
- 5 gene cod : sequence pershay linked to a promoter.
 - comprise a plikal sen in a Arabidopsis thaliana.
- 10 11. The expression cassette of claim 10, in which the promoter is the coallilewer mosaic virus 35S promoter.

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- the plPA sene is pair or all of SEQ ID NO:1 or SEQ ID NO:10.
- 13. A vector obsprising the expression cassette of claim θ .
- an Agrol merium band province selected from the group consist.
- resista: to x herical companies by transforming in vitro

 the plan with the expected not assette of claim 9.

the state of the s

claim 15.

18. A representative unit form the transgenic plant of claim ().

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- 9. A cell is a the transgenic plant of claim 17.
- nucleic of monecule for claim 1, operably linked to a vector for trans or mine cells.

.

- with the recombinant DNA molecule i claim ().
- 2. The cold claim 21, selected from the group consisting of hosterial cells, yeast cells and plant cells.
 - transfor cell of c at 12.

- 20 number 1987 1997 and the sequence selected from the group of 1997 1997.
 - I: animpo ID NO:10;
- 25 cm; if c : sequence that is at least about 60% home as the c : sequence that is at least about 10% home. The c is the sions of SEQ ID NO:1 or SEQ ID NO:1.1.

having S ID N : 2;

I a product of holding an amino acid sequence that is at lear about to about to SEQ ID NO:2;

of the second the modified an amino acid sequence that is at less about we shouldn't. SEQ ID NO:2; 5

of a segue to impding an amino acid sequence that is at less about see the lar to residues 1-76, 613-669 or 1144-1161 f SE; II L :2; and

a sectable apprinting at moderate stringency to a sequence endoding puriques 1-75, 613-669 or 1144-1161 of 10 SEQ ID NO:2.

1.5. A poly upoide produced by expression of the nucleic acid servence of flaim 24.

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16. Antib 1997 immunologically specific for the polypepti: of lasm :.

7. In classification between about 10 and about 100 nucle mides in $1e^{-i\omega_{0}}$, which specifically hybridizes at 20 moderate win each to perform of the nucleic acid molecule ol

 $\hat{J}^{(i)} = \{\hat{J}^{(i)}, \hat{J}^{(i)}\}$ is the SNA molecule comprising the nucleic : mc | tile : till 14, operably linked to a 25

- consisting of Factors wills, yeast cells and plant cells.
- 5 of claim * .
 - inducible upon expects of the plant to NPPB.
- upon a cell in which the found resistance to Rhodamine 6G.
- preferentially produce is an roots upon the exposure to the NPPB.
 - Solution of the province of the selected combine of the province of the selected combine of the select
 - amino are required to the form the group consisting of:
- an amiliar to SEQ ID Note: Sequence that is at least 80% $\,$
 - an aming the pende that is at least 70%

sequence : pridizin: 1 : sequence encoded by a nucleic acid sequence : pridizin: 1 : derate stringency to a amino acid sequence : poding restrict : 176, 613-669 or 1144-1161 of SEQ ID NO:2.

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- 97. Antiles & immunologically specific for the p-glycoprote n of class 2.
- immunologically specified to residues 1-76, 613-669 or 1144-1161 of SE ID NO:2.
 - 3. A plant polycoprotein gene promoter which is inducible by NPPB.

- The plant p glycoprotein gene promoter of claim 39, that is put to all of residues 1-3429 of SEQ ID NO:10.
- 20 1. A plant with reduced levels of plPAC protein.
 - ... The proposition of all wherein the native plPAC gene is to also.
- 25 P. The since the limit of limit 42, wherein the p1PAC gene is mutated as to the second of a TDNA.

of plants is mutate: if $^{\prime}$ -DNA insertion.